## CALGreen Low-Rise Residential comparison to GreenPoint Rated and LEED for Homes

### Introduction

In January 2010, California adopted the first statewide mandatory green building code in the country. In January 2011, the California Green Building Standards Code (or CALGreen) will go into effect. The new code establishes minimum green building standards for most new construction projects.

#### Purpose

The purpose of this document is to provide users a quick reference between CALGreen and the rating systems used in GreenPoint Rated (GPR) and LEED for Homes. This document does not provide extensive analysis of the similarities or differences between the rating systems or CALGreen. For full information on CALGreen see: www.usgbc.org.

#### Verification

CALGreen is part of the California Building Standards Code and is enforced by local jurisdictions and building officials (see CALGreen Chapter 1). GreenPoint Rated and LEED for Homes are voluntary rating systems that are interpreted by their authors, Build it Green and the U.S. Green Building Council respectively, and documentation is reviewed by Build It Green and a LEED for Homes Provider, respectively. Some California local jurisdictions have local ordinances that require use of GPR for residential buildings.

## Legend & Notes

	CALGreen	Note
Black	Mandatory Measure	This will be required in all jurisdictions.
Blue	Tier 1 & 2 Prerequisite	If a Tier is adopted, this will be a mandatory measure in that jurisdiction. Tier requirements and the full text of CALGreen measures can be found on the HCD website.
Green	Elective Measure	If a Tier is adopted, a set number of elective measures must be met, but the choice of measures is up to the applicant. Separately, local jurisdictions may make specific elective measures mandatory at their discretion. Tier requirements and the full text of CALGreen measures can be found on the HCD website. Elective measures require interpretation by local officials to be compared to GPR or LEED for Homes.
"Earns Cre LEED"	edit or Points in GPR /	These columns indicate if meeting the required CALGreen measure also meets a prerequisite or earns point(s) for the related measure in either GreenPoint Rated or LEED for Homes. "Maybe" indicates that the CALGreen measure meets part but not all of the comparable GPR or LEED prerequisite or credit.  key: n/a = not applicable, Yes Maybe No

GPR	Note
Prerequisite	A project must meet all GPR prerequisites to qualify for any level of GPR certification.
	n/a
Point	Different measures are worth different numbers of green points, with a higher total rating indicating a "greener" home. A minimum number of points overall and within specific categories is required. GPR credits are described in the GreenPoint Rated Manuals.
"Meets CALGreen"	Indicates whether completing the GPR prerequisite or measure meets the requirements of the related CALGreen measure.
	key: n/a = not applicable, Yes Maybe No

LEED	Note
Prerequisite	A project must meet all LEED prerequisites to qualify for any level of LEED certification.
	n/a
Credit	Different measures are worth different numbers of LEED credits. Higher point totals are required to meet Certified, Silver, Gold and Platinum levels of certification. LEED credits are described in the LEED reference guide.
"Meets CALGreen"	Indicates whether completing the LEED prerequisite or credit meets the requirements of the related CALGreen measure.
	key: n/a = not applicable, Yes Maybe No

# CALGreen Low-Rise Residential comparison to GreenPoint Rated and LEED for Homes

version 1.0, September 1, 2010

CALGree Building	n Residential Code		Earns GPR Cred/Pts	Earns LEED Cred/Pts
CALGreen	Section	CALGreen Requirements Summary	Ea	Ea
Mandato	ry measures			
4.1	Planning and De	sign		
4.106.2	Storm water drainage and retention during construction	Projects which disturb less than one acre of soil and are not part of a larger common plan of development which in total disturbs one acre or more, shall manage storm water drainage during construction, including one or more of retention basins, filtration, or compliance with a storm water management ordinance.	Y	м
4.106.3	Surface drainage	The site shall be planned and developed to keep surface water from entering buildings. Construction plans shall indicate how the site grading or drainage system will manage surface water flows.	Y	м
4.2	Energy Efficiency	1		
4.201	Energy efficiency (minimum standard)	Meet California Energy Code (Title 24, Part 6).	N	N
4.3	Water Efficiency	and Conservation		
4.303.1	Indoor Water Use Savings	20% savings: either each fixture meets reduced flow rates per Table 4.303.2 or calculation demonstrating building water use reduction per Table 4.303.1. Met fixtures standards in Table 4.303.3. note: this measure effective July 1, 2011	Y	Y
4.303.2	Multiple	When a single shower is served by more than one showerhead, the		
	showerheads serving one shower	combined flow rate shall not exceed the maximum flow rate specified or the shower shall be designed to only allow one shower to operate at a time.	Y	Y
4.304.1	Irrigation Controllers	Provide weather or soil moisture based controllers that automatically adjust in response to plants' needs as weather conditions change.	Y	Y

	int Rated Single Family New 2 - 2008 Rating System	Meets ALGreen
Measure	Requirements Summary	ς¥
Compara	ble GPR credits & prerequisites	
Site, Con	nmunity Design & Planning	
Q.1	Mirrors CALGreen 4.106.2 Storm water management during construction.	Y
Q.2	Mirrors CALGreen 4.106.3 Design for surface water drainage away from buildings.	Y
HVAC, Bu	uilding Performance, Renewables	
J.2	Required: Minimum 15% better than Title 24.	Υ
Landsca	oe, Plumbing	
G.2-3	Showerheads ≤2.0 Gallons Per Minute (gpm) at 80 psi, Bathroom Faucets ≤ 1.5 gpm at 60psi, Kitchen and Utility Faucets ≤1.8 gpm, Toilets Dual-Flush or ≤1.28 Gallons Per Flush (gpf).	Y
G.2	Showerheads ≤2.0 Gallons Per Minute (gpm) at 80 psi, including requirement for multiple shower heads.	Y
C.6.b	System Has Smart (Weather-Based) Controller.	Υ

LEED for Rating S	· Homes California (non-Midrise) ystem	Meets
Credit	Requirements Summary	Σ
Compara	able LEED credits & prerequisites	
Location	& Linkages, Sustainable Sites	
SS 1.1	Prerequisite: Erosion Control During Construction: do all of the following: stockpile soil for reuse, control runoff, protect sewer inlets, surface waters and hillsides, provide swales.	Y
ID 2.1	Prerequisite: Part of durability plan.	Y
Energy 8	& Atmosphere	
EA 1.1	Prerequisite: Minimum 15% better than Title 24.	Y
Water E	fficiency	
WE 3.1	Showerheads $\leq$ 2.0 Gallons Per Minute (gpm), Bathroom Faucets $\leq$ 2.0 gpm, Toilets Dual-Flush or $\leq$ 1.3 Gallons Per Flush (gpf).	N
WE 3.1	Showerheads rated per stall, more than 2.0 gpm per stall not allowed.	Y
WE 2.1.k	Install a moisture sensor or rain delay controller.	М









CALGIE	eli Low-Rise	Residential comparison to GreenPoint Ra			IIU LEED I	or nomes			version 1.0, September 1,	
CALGreer Building (	Residential		IS GPR	Earns LEED Cred/Pts		t Rated Single Family New - 2008 Rating System	eets Green	LEED for Rating S	r Homes California (non-Midrise) System	
CALGreen S	Section	CALGreen Requirements Summary	Ear	를 를 입	Measure	Requirements Summary	SAL A	Credit	Requirements Summary	_
4.4		vation and Resource Efficiency		╫		n, Exterior, Frame & Envelope			ls & Resources	-
4.406.1	Joints and Openings	Openings in the building envelope separating conditioned space from unconditioned space needed to accommodate gas, plumbing, electrical lines and other necessary penetrations shall be protected against rodents.	Υ	n/a	Q.4	Mirrors CALGreen 4.406.1 Joints and openings. Annular spaces around pipes, electric cables, conduits, or other opening in plates at exterior walls shall be protected against rodents.	Y		none	-
4.408.1	Construction waste reduction of at least 50%	Recycle and/or salvage for reuse a minimum of 50% of the non- hazardous construction and demolition debris, or meet a local construction and demolition waste management ordinance, whichever is more stringent. (Excavated soil and land-clearing debris excluded).	Υ	Υ		Required: Divert 50% (by weight) of all Construction and Demolition Waste (Including Green Waste and Existing Structures).	Y	MR 3.2	Construction Waste Reduction: divert 2! 88% of waste (excluding land clearing and demolition waste), or generate less that 2.5 lbs per sq. ft. of built space.	
4.408.2	Construction waste management plan	Where a local jurisdiction does not have a construction and demolition waste management ordinance, a construction waste management plan shall be submitted for approval to the enforcing agency.	Y	Y	A.2.a	Required: Pre Construction Debris Recovery Plan.	Y	MR 3.1	Prerequisite: Construction waste management plan and documentation o the diversion rate for construction waste	
4.410.1	Operation and maintenance manual.	An operation and maintenance manual shall be provided to the building occupant or owner, describing:  1. Keeping manual with property 2. O&M instructions for equipment and appliances, drainage, irrigation, etc. 3. Local utility conservation resources 4. Public transportation / carpool options 5. Health benefits of 30-60% relative humidity 6. Landscape water conservation 7. Gutter and downspout maintenance 8. Routine maintenance 9. State solar energy and incentive programs 10. Special inspection records	N	N		Develop a Homeowner Manual of Green Features/Benefits including:  1. Description of green features  2. O&M for green maintenance  3. Instructions for equipment & appliances  4. Recycling opportunities  5. Water & energy use optimization  6. Safety and controls labeling  7. Pest inspection procedure  8. Green pest control, fertilizer, cleaning information  9. Indoor air quality information  10. Gutter and downspout maintenance  11. Landscape maintenance  12. Handling of hazardous chemicals  13. Requirements of CALGreen O&M manual	Y	AE 1.1.a	Prerequisite: Provide a minimum one-hour walkthrough of the home plus an operations and training manual including:  1. Project LEED checklist  2. Project LEED accountability forms  3. Project durability inspection checklist  4. Product manuals for equipment & appliances  5. General energy, water, resource efficiency information  6. 0&M guidance for equipment, including irrigation  7. Guidance on cleaning, landscaping, irrigation, etc.  8. Information on "green power"	
1.5	Environmental Q					looring, HVAC			Environmental Quality	
1.503.1	Fireplaces	Any installed gas fireplace shall be a direct-vent sealed-combustion type. Any installed woodstove or pellet stove shall comply with US EPA Phase II emission limits where applicable. Woodstoves, pellet stoves and fireplaces shall also comply with applicable local ordinances.	Y	N M		Mirrors CALGreen 4.503.1 - Gas fireplace shall be a direct-vent sealed combustion type. Woodstove or pellet stove shall comply with US EPA Phase II emission limits.	Y	EQ 2.1	Prerequisite: Basic Combustion Venting Measures: sealed combustion or power- vented exhaust. CO detectors required. Credit: Wood and pellet stoves are EPA certified.	
l.504.1	Covering of duct openings and protection of mechanical equipment during construction	At the time of rough installation, or during storage on the construction site and until final startup of the heating and cooling equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheet metal or other methods acceptable to the enforcing agency to reduce the amount of dust or debris which may collect in the system.	Υ	Y		Construction Environmental Quality Management Plan - Duct openings and other related air distribution component openings shall be covered during construction.	Υ	EQ 8.1	Upon installation, seal all permanent ducts and vents to minimize contamination during construction.	_
.504.2.1	Adhesives, sealants, and caulks	Adhesives, sealants, and caulks shall comply with local or regional air pollution control or air quality management district rules where applicable, or SCAQMD Rule 1168 VOC limits and Rule 1168 prohibition on the use of certain toxic compounds. Aerosol adhesives shall meet CCR Title 17 section 94507 et seq.	Y	Υ		Use Low-VOC Caulks & Construction Adhesives that meet SCAQMD Rule 1168. Sealants meet SCAQMD Rule 1168. Aerosol adhesives shall meet CCR section 94507.	Υ	MR 2.2	Environmentally preferable products: adhesives & sealants meet SCAQMD Ru 1168.	1
4.504.2.2	Paints and coatings	Paints, stains, and coatings shall comply with VOC limits the ARB Architectural Coatings Suggested Control Measure, unless more	_	v		Use Low-VOC Interior Wall/Ceiling Paints (<50 Grams Per Liter (gpl) VOCs	•	MR 2.2	Environmentally preferable products: paints meet Green Seal GS-11, GC-03	



Coatings

4.504.2.3



Limits for ROC, other toxic compounds, and ozone depleting

substances, in CCR Title 17 section 94520 and 94522 et seq.

Aerosol Paints and Aerosol paints and coatings shall meet the Product-Weighted MIR

stringent local limits apply. (See 4.504.2.4 for verification process.)





n/a n/a

Regardless of Sheen) and Low-VOC

none

Coatings that meet SCAQMD Rule 1113

n/a

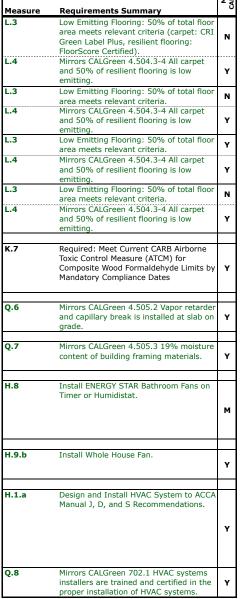
or SCAQMD Rule 1113 as applicable.

n/a

none

LEED for I	Homes California (non-Midrise)
Rating Sy	stem
Credit	Requirements Summary
MR 2.2	Environmentally preferable products: Carpet and pad meets CRI Green Label Plus for 45% or 90% of total floor area.
MR 2.2	See above.
MR 2.2	Environmentally preferable products: adhesives & sealants meet SCAQMD Rule
MR 2.2	Environmentally preferable products: flooring is FloorScore certified for 45% o
MR 2.2	Environmentally preferable products: cabinet, counter, and trim composite materials contain no added ureaformaldehyde resins.
ID 2.1	Prerequisite: Part of durability plan.
ID 2.1	Prerequisite: Part of durability plan.
EQ 5.1.d	Prerequisite: exhaust fans in all bathrooms and kitchen are Energy STAR meet ASHRAE standards, exhaust outdoors.
EQ 5.2.b/c	Credit: occupancy sensor, humidistat, timer control, or continuous operation.
	none
EQ 6.1	Prerequisite: Design Calcs and install ducts or system according to ACCA Manual J and D, and ASHRAE Handbook of Fundamental Procedures.
	none

CALGIEER	Jection	CALGreen Requirements Summary		
4.504.3	Carpet systems	All carpet installed in the building interior shall meet the testing and product requirements of one of the following:  1. Carpet and Rug Institute's Green Label Plus Program  2. California Department of Public Health Standard Practice for the testing of VOCs (Specification 01350)	М	м
		NSF/ANSI 140 at the Gold level     Scientific Certifications Systems Indoor Advantage Gold	Y	
4.504.3.1	Carpet cushion	All carpet cushion installed in the building interior shall meet the requirements of the Carpet and Rug Institute Green Label program.	М	м
			Y	
4.504.3.2	Carpet adhesive	All carpet adhesive shall meet the requirements of Table 5.504.1. (VOC limit of 50 g/L) $$	М	м
			Y	
4.504.4	Resilient flooring systems	At least 50% of floor area receiving resilient flooring shall comply with the VOC-emission limits defined in the Collaborative for High Performance Schools (CHPS) Low-emitting Materials List or certified under the Resilient Floor Covering Institute (RFCI) FloorScore program.	M Y	м
4.504.5	Composite wood products	Hardwood plywood, particleboard, and medium density fiberboard composite wood products used on the interior or exterior of the building shall meet the requirements for formaldehyde as specified in ARB's Air Toxics Control Measure for Composite Wood (17 CCR 93120 et seq.). See 4.504.5.1 for documentation requirements.	Y	N
4.505.2.1	Concrete slab foundations	Concrete slab foundations required to have a vapor retarder by California Building Code shall also have a capillary break.	Υ	М
4.505.3	Moisture content of building materials	Building materials with visible signs of water damage shall not be installed. Moisture content of building materials used in wall and floor framing is checked before enclosure.	Υ	М
4.506.1	Bathroom exhaust fans	ENERGY STAR compliant exhaust fans which terminate outside the building are provided in every bathroom, and have humidistat control capable of adjustment between a relative humidity range of 50-80%.	Y	м
				М
4.507.1	Openings	Whole house exhaust fans shall have insulated louvers or covers which close when the fan is off. Covers or louvers shall have a minimum insulation value of R-4.2.	Y	n/a
4.507.2	Environmental Comfort: Heating and air conditioning system design	Heating and air conditioning systems shall be sized, designed, and equipment is selected using the following methods:  1. The heat loss and heat gain is established according to ACCA Manual J, ASHRAE handbooks or equivalent.  2. Duct systems are sized according to ACCA 29-D Manual D, ASHRAE handbooks or equivalent.  3. Select heating and cooling equipment according to ACCA 36-S Manual S or equivalent.	Y	Y
702.1	Qualifications	HVAC systems installers are trained and certified in the proper installation of HVAC systems.	N	n/a











			GPR	ij,
A4.106.2.3 Soil Analysis and Protection  A4.106.4 Water permeable surfaces  Surfaces Shall be permeable (excluding primary driveway, walkway and porch areas).  A4.106.5 Cool Roof  A4.106.5 Cool Roof  Tier 1: Roofing materials shall have a minimum 3- year aged solar reflectance and thermal emittance or a minimum Reflectance Index (SRI) equal to or greater than the values specified in Tables A4.106.5(1) and A4.106.5(2). Steep slope >64, low slope >10 or 16 (depending on climate zone)  4.2 Energy Efficiency - all measures below plus 4 electives  A4.203.1 Energy performance Tier 1: 15% reduction compared to Title 24.  4.3 Water Efficiency and Conservation - all measures below plus 1 elective A4.303.1 Kitchen faucets  Tier 1: Max. flow rate of 1.5 gpm.  Y  A4.304.4 Potable water reduction  Indicace irrigation system shall be installed that reduces potable water use. Tier 1: Reduce the use of potable water to a quantity that does not exceed 65% of ETo times landscape area.  4.4 Material Conservation - all measures below plus 1 elective  A4.408.1 Enhanced construction waste reduction  A8 allowed by the enforcing agency, reduce cement used in foundation mix design. Products commonly used to replace cement in concrete mix designs include, but are not limited to fly ash, slag,  Y		rns ed/	l su	
CALGreen S	ection	CALGreen Requirements Summary	Ea Cr	Ear
Tier 1 add	itional prerequisi	tes		
4.1	Planning and De	sign - all measures below plus 2 electives		
A4.106.2.3	Soil Analysis and	Tier 1: Displaced topsoil shall be stockpiled for reuse in a designated		١.,
	Protection	area and covered or protected from erosion.	Z	М
A4.106.4				
	surfaces		N	N
A4.106.5	Cool Roof			
			n/a	n/
			11/ 4	11/
4.2	Energy Efficiency			
A4.203.1			v	Υ
			<u>'</u>	⊢'
A4.303.1	Kitchen faucets	Tier 1: Max. flow rate of 1.5 gpm.		١.
			Y	n/
M 304 4	Potable water	When landscaping is provided by the builder a water efficient		
A4.304.4				Y
	reduction		Υ	١.
		Tier 1: Reduce the use of potable water to a quantity that does not		
		exceed 65% of ETo times landscape area.		N
4.4	Material Conserv			
A4.408.1				
			Υ	Y
	reduction	Her 1: 65% Reduction.		
A4.403.2	Reduction in	As allowed by the enforcing agency, reduce cement used in		
				N
		silica fume, rice hull ash.		1
		Tier 1: Not less than a 20% reduction in cement use.		<u> </u>
A4.405.3	Recycled content	Use materials, equivalent in performance to virgin materials, with		
		post-consumer or pre-consumer recycled content value (RCV) for a percent of the total materials cost. (RCV equals percent post-		
		consumer + 1/2 percent pre-consumer times material cost.)		
		Tier 1: minimum 10%.		۱.
			М	М
	Environmental O	unlity all measures helew plus 1 elective		┝
5.5 A4.504.2	Resilient flooring	uality - all measures below plus 1 elective Tier 1: At least 80% of resilient flooring installed shall comply with		1
A4.504.2	systems	the criteria listed above.	м	м
	J, 3001113	and distanta hated data to	"	"
A4.504.3	Thermal Insulation	Tier 1: Install thermal insulation in compliance with the VOC-		
		emission limits defined in Collaborative for High Performance Schools	n/a	Υ
		(CHPS) Low-emitting Materials List.		

	.2 - 2008 Rating System	ŀ
Measure	Requirements Summary	1
	able GPR credits & prerequisites	
	mmunity Design & Planning	
A.1.a	Protect Topsoil and Reuse after Construction.	
P.A.1.a	Permeable Paving for 25% of Driveways, Patios and Walkways (no excepted areas).	
	none	ı
	Building Performance, Renewables	L
J.2	Required: Minimum 15% better than	
Landeca	Title 24. ipe, Plumbing	H
G.2.c	Kitchen faucets 2.0 gpm max.	
C.11.a	Design Landscape to meet Water Budget: Install Irrigation System That Will Be Operated at ≤70% Reference ET.	
Foundat	tion, Exterior, Frame & Envelope	İ
A.2.b	Divert 100% of Asphalt and Concrete	
	and 65% (by weight) of Remaining Materials.	
B.1	and 65% (by weight) of Remaining	
	and 65% (by weight) of Remaining Materials.  Replace Portland Cement in Foundation Concrete with Recycled Fly Ash and/or Slag (Minimum 20%).	
B.1 A.3.a C.12	and 65% (by weight) of Remaining Materials.  Replace Portland Cement in Foundation Concrete with Recycled Fly Ash and/or	
A.3.a C.12 E.1	and 65% (by weight) of Remaining Materials.  Replace Portland Cement in Foundation Concrete with Recycled Fly Ash and/or Slag (Minimum 20%).  Use Recycled Content Aggregate  Use Environmentally Preferable Materials for 70% of Non-Plant Landscape Elements and Fencing  Use Environmentally Preferable Decking	
A.3.a C.12 E.1 F.1	and 65% (by weight) of Remaining Materials.  Replace Portland Cement in Foundation Concrete with Recycled Fly Ash and/or Slag (Minimum 20%).  Use Recycled Content Aggregate Use Environmentally Preferable Materials for 70% of Non-Plant Landscape Elements and Fencing Use Environmentally Preferable Decking Insulation has 75% Recycled Content	
A.3.a C.12 E.1	and 65% (by weight) of Remaining Materials.  Replace Portland Cement in Foundation Concrete with Recycled Fly Ash and/or Slag (Minimum 20%).  Use Recycled Content Aggregate Use Environmentally Preferable Materials for 70% of Non-Plant Landscape Elements and Fencing Use Environmentally Preferable Decking Insulation has 75% Recycled Content Use Recycled-Content Plant Use Environmentally Preferable Materials	
A.3.a C.12 E.1 F.1 K.5 K.6	and 65% (by weight) of Remaining Materials.  Replace Portland Cement in Foundation Concrete with Recycled Fly Ash and/or Slag (Minimum 20%).  Use Recycled Content Aggregate Use Environmentally Preferable Materials for 70% of Non-Plant Landscape Elements and Fencing Use Environmentally Preferable Decking Insulation has 75% Recycled Content Use Recycled-Content Paint Use Environmentally Preferable Materials for Interior Finishes	
A.3.a C.12 E.1 F.1 K.5 K.6	and 65% (by weight) of Remaining Materials.  Replace Portland Cement in Foundation Concrete with Recycled Fly Ash and/or Slag (Minimum 20%).  Use Recycled Content Aggregate Use Environmentally Preferable Materials for 70% of Non-Plant Landscape Elements and Fencing Use Environmentally Preferable Decking Insulation has 75% Recycled Content Use Recycled-Content Paint Use Environmentally Preferable Materials for Interior Finishes Use Environmentally Preferable Flooring	
A.3.a C.12 E.1 F.1 K.5 K.6	and 65% (by weight) of Remaining Materials.  Replace Portland Cement in Foundation Concrete with Recycled Fly Ash and/or Slag (Minimum 20%).  Use Recycled Content Aggregate Use Environmentally Preferable Materials for 70% of Non-Plant Landscape Elements and Fencing Use Environmentally Preferable Decking Insulation has 75% Recycled Content Use Recycled-Content Paint Use Environmentally Preferable Materials for Interior Finishes Use Environmentally Preferable Flooring	

LEED for Rating S	· Homes California (non-Midrise) System	Meets
Credit	Requirements Summary	Σ
	able LEED credits & prerequisites	
	& Linkages, Sustainable Sites	
SS 1.1.a	Prerequisite: Stockpile and protect disturbed topsoil from erosion.	Υ
SS 4.1	At least 70% of the built environment, excluding roof area, is permeable or designed to capture water runoff.	Υ
	none	n/
	& Atmosphere	
EA 1.1	Prerequisite: Minimum 15% better than Title 24.	Υ
Water E	fficiency	
	Kitchen faucets not included as used for filling lasses or pots.	n/
SS 2.5	Reduce Overall Irrigation Demand by at Least 20% (to 80% of ET).	N
WE 2.3	Reduce Overall Irrigation Demand by at Least 45% (to 55% of ET).	Υ
Material	s & Resources	
MR 3.2	Construction Waste Reduction: divert 25- 88% of waste (excluding land clearing and demolition waste), or generate less that 2.5 lbs per sq. ft. of built space.	м
MR 2.2	Environmentally Preferable Products: Foundation and concrete wall cement contains at least 30% fly ash.	Υ
MR 2.2	Environmentally Preferable Products: Points earned for each of 21 building components (framing, siding, flooring, trim, cabinets, etc.) that contains a minimum of 25% postconsumer (or 50% postindustrial) recycled content, as long as recycled content is reached in 90% of the material used in that component.	N
Indoor E	invironmental Quality	
MR 2.2	Environmentally preferable products: flooring is FloorScore certified for 45% or 90% of total floor area.	N
MR 2.2	Environmentally preferable products: insulation complies with CA Practice for Testing of VOCs from Building Materials.	Υ









CALGreen Low-Rise Residential comparison to GreenPoint Rate				
CALGreen	Residential		R st	٠ ا
<b>Building</b> (	Code		B S G	SEE
CALGreen S	Section	CALGreen Requirements Summary	Earns GPR Cred/Pts	Earn
		tes (Tier 1 prerequisites also apply)		
4.1		sign - all measures below plus 4 electives		
A4.106.2.3		Tier 2: Tier 1, plus the construction area shall be identified and delineated by fencing or flagging to limit construction activity to the construction area.	N	N
A4.106.4	Water permeable surfaces	Tier 2: Not less than 30% of the total parking, walking, or patio surfaces shall be permeable (excluding primary driveway, walkway and porch areas).	N	N
A4.106.5	Cool Roof	Tier 2: Steep slope > 78, low slope >20.	n/a	n/a
4.2	Energy Efficience	y - all measures below plus 6 electives		
A4.203.1	Energy performance	e Tier 2 - 30% reduction compared to Title 24.	Υ	Y
4.3	Water Efficiency	and Conservation - all measures below plus 2 electives		
A4.303.1	Kitchen dishwashers	Dishwashers shall be EnergySTAR qualified and 5.8 gal/cycle max.	n/a	n/a
A4.304.4	Potable water reduction	Tier 2: Reduce the use of potable water to a quantity that does not exceed 60% of ETo times landscape area.	N	N
4.4	Material Conserv	vation - all measures below plus 4 electives		
A4.408.1	Enhanced	Recycle and/or salvage for reuse non-hazardous construction and demolition debris (excavated soil and land-clearing debris excluded). Tier 2: 75% reduction.	N	Y
A4.403.2	Reduction in cement use	Reduce cement used in foundation mix design. Tier 2: 25% reduction.	Y	N
A4.405.3	Recycled content	Use materials, equivalent in performance to virgin materials, with post-consumer or pre-consumer recycled content value (RCV) for a percent of the total materials cost. (RCV equals percent post-consumer + 1/2 percent pre-consumer times material cost.) Tier 2: minimum 15%.	м	м
5.5	Environmental O	quality - all measures below plus 1 elective	İ	
A4.504.2	Resilient flooring systems	Tier 2: At least 90% of resilient flooring installed shall comply with the criteria listed above.	М	Υ
A4.504.3	Thermal Insulation	Tier 2: Tier 1 plus Install insulation which contains No-Added Formaldehyde (NAF) and is in compliance with the VOC-emission limits defined in Collaborative for High Performance Schools (CHPS) Low-emitting Materials List.	n/a	Y

	it Rated Single Family New	" e
Home 4.2	- 2008 Rating System	Meets ALGree
		Meets CALGreen
Measure	Requirements Summary	_
	le GPR credits & prerequisites	
	munity Design & Planning	
A.1.b	Limit and Delineate Construction Footprint for Maximum Protection .	Υ
P.A.1.a	Permeable Paving for 25% of Driveways, Patios and Walkways (no excepted	Υ
	areas).	
	none	n/a
		11/ a
	Iding Performance, Renewables	
J.3	Design and Build Near Zero Energy Homes.	Υ
Landscape	e, Plumbing	
	none	/
		n/a
C.11.b	Install Irrigation System That Will Be Operated at ≤50% Reference ET.	Υ
	•	
	n, Exterior, Frame & Envelope	
A.2.c	Divert 100% of Asphalt and Concrete and 80% (by weight) of Remaining	
	Materials.	Υ
	- Ideardas	
B.1	Replace Portland Cement in Foundation	
	Concrete with Recycled Fly Ash and/or	N
	Slag (Minimum 20%).	
A.3.a C.12	Use Recycled Content Aggregate	
C.12	Use Environmentally Preferable Materials for 70% of Non-Plant Landscape	
	Elements and Fencing	
E.1	Use Environmentally Preferable Decking	
F.1	Insulation has 75% Recycled Content	N
г. <u>т</u> К.5	Use Recycled-Content Paint	
K.6	Use Environmentally Preferable Materials	
K.O	for Interior Finishes	
L.1	Use Environmentally Preferable Flooring	
Finishes,	Flooring, HVAC	
L.3	Low Emitting Flooring: 50% of total floor	
-	area is certified (resilient flooring:	N
	FloorScore).	
	none	
		- 15
		n/a

	version 1.0, September 1, 2	
	Homes California (non-Midrise)	Meets CALGreen
Rating S	System	
Credit	Requirements Summary	_ გ
Compara	ble LEED credits & prerequisites	
	& Linkages, Sustainable Sites	
SS 1.2	Minimize disturbed area of site around trees, leave undeveloped area, undo soil compaction.	Y
SS 4.1	At least 70% of the built environment, excluding roof area, is permeable or designed to capture water runoff.	Υ
	none	n/a
Energy 8	k Atmosphere	
EA 1.2	Exceptional Energy Performance (16-60% better than Title 24).	N
Water Ef	ficiency	
	none	n/a
WE 2.3	Reduce Overall Irrigation Demand by at Least 45% (to 55% of ET).	Υ
Materials	s & Resources	
MR 3.2	Construction Waste Reduction: divert 25- 88% of waste (excluding land clearing and demolition waste), or generate less that 2.5 lbs per sq. ft. of built space.	м
MR 2.2	Environmentally Preferable Products: Foundation and concrete wall cement contains at least 30% fly ash.	Y
MR 2.2	Environmentally Preferable Products: Points earned for each of 21 building components (framing, siding, flooring, trim, cabinets, etc.) that contains a minimum of 25% postconsumer (or 50% postindustrial) recycled content, as long as recycled content is reached in 90% of the material used in that component.	N
	nvironmental Quality	
MR 2.2	Environmentally preferable products: flooring is FloorScore certified for 45% or 90% of total floor area.	N
MR 2.2	Environmentally preferable products: insulation complies with CA Practice for Testing of VOCs from Building Materials.	N









CALGreen				
	n Residential		PR ts	ED
Building (	Code		Earns GPR Cred/Pts	IS LE
CALGreen S	Section	CALGreen Requirements Summary	Cre	Earn
Elective n				
4.1		esign (choose two for Tier 1 or four for Tier 2)		
A4.103.1		Greyfield, or Brownfield.		<u> </u>
			Υ	М
A4.104.1	Site Preservation: St	aff Trained in Environmentally Friendly Development.	м	N
A4.105.1	Deconstruction and R	Reuse of Existing Materials.		
			М	М
A4.106.1		hin 30 degrees of South.	N	N
A4.106.2.1	Soil Analysis used in	structural design of building.	n/a	n/a
A4.106.2.2	Soil Protection minim	nizes erosion, cut and fill, and trenching.	n/a	N
A4.106.3	Landscape Design	Do one or more of:  1. Restore areas disrupted by construction with native species	м	n/a
		2. Turf Reduction:	N	
		- Tier 1: Turf limited to 50% of total landscaped area - Tier 2: Turf limited to 25% of total landscaped area	Y	Y
		3. Use 75% native Californian or drought tolerant species	<u>-</u>	
		5. 656 75 % hadre came.man of along it tolerant species	Y	Y
		4. Use hydrozoning irrigation techniques	Υ	Υ
4.2	Energy Efficience	cy (choose four for Tier 1 or six for Tier 2)		
* energy note	GPR or LEED, but wh	e energy measures in CALGreen without a prescriptive counterpart in ich would contribute to energy performance prerequisites and (J.2) and LEED (EA 1).	*	*
A4.205.1	Radiant Barrier*		*	*
A4.205.2		South & West Windows	*	*
A4.206.1	Blower Door Testing		Υ	N
A4.207.1	Innovative Radiant, F			
		Hydronic, or Ground Source Heating & Cooling System	М	*
A4.207.2	HVAC Commissioning		n/a	n/a
A4.207.4	HVAC Commissioning	) higher		
	HVAC Commissioning	) higher	n/a	n/a
A4.207.4	HVAC Commissioning Furnace AFUE .90 or Electric Heat Pump H	) higher	n/a <b>Y</b>	n/a
A4.207.4 A4.207.5	HVAC Commissioning Furnace AFUE .90 or Electric Heat Pump H	higher ISPF 8.0 or higher* EER higher than 13.0 and EER 11.5 or higher	n/a Y Y	n/a *
A4.207.4 A4.207.5 A4.207.6	Furnace AFUE .90 or Electric Heat Pump H Cooling Equipment S	higher ISPF 8.0 or higher* EER higher than 13.0 and EER 11.5 or higher	n/a Y Y	n/a * * *
A4.207.4 A4.207.5 A4.207.6 A4.207.7 A4.207.8 A4.207.9	Furnace AFUE .90 or Electric Heat Pump H Cooling Equipment S Interior and/or Insula Duct Leakage Testing Whole House Fan	higher ISPF 8.0 or higher* EER higher than 13.0 and EER 11.5 or higher ated Ductwork ISPF 8.0 or higher	n/a Y Y N Y M Y	n/a * * * * n/a
A4.207.4 A4.207.5 A4.207.6 A4.207.7 A4.207.8 A4.207.9 A4.207.10	Furnace AFUE .90 or Electric Heat Pump H Cooling Equipment S Interior and/or Insula Duct Leakage Testing Whole House Fan Energy STAR Ceiling	higher ISPF 8.0 or higher* EER higher than 13.0 and EER 11.5 or higher ated Ductwork g Shows <6% Leakage* Fans	n/a Y Y N Y M Y Y	n/a * * * * n/a * * * * * * * * * * * * * * * * * * *
A4.207.4 A4.207.5 A4.207.6 A4.207.7 A4.207.8 A4.207.9 A4.207.10 A4.208.1	Furnace AFUE .90 or Electric Heat Pump H Cooling Equipment S Interior and/or Insula Duct Leakage Testing Whole House Fan Energy STAR Ceiling Gas Water Heater EF	higher ISPF 8.0 or higher*  EER higher than 13.0 and EER 11.5 or higher ated Ductwork  g Shows <6% Leakage*  Fans higher than .6	n/a Y N Y M Y M Y	n/a *  *  *  n/a *  *  n/a *  Y Y
A4.207.4 A4.207.5 A4.207.6 A4.207.7 A4.207.8 A4.207.9 A4.207.10 A4.208.1 A4.208.2	Furnace AFUE .90 or Electric Heat Pump H Cooling Equipment S Interior and/or Insula Duct Leakage Testing Whole House Fan Energy STAR Ceiling Gas Water Heater EF Gas Water Heater EF	higher ISPF 8.0 or higher* EER higher than 13.0 and EER 11.5 or higher ated Ductwork g Shows <6% Leakage*  Fans higher than .6 higher than .8	n/a Y N Y M Y M Y Y	n/a*  *  *  n/a  *  n/a  *  Y  Y
A4.207.4 A4.207.5 A4.207.6 A4.207.7 A4.207.8 A4.207.9 A4.207.10 A4.208.1	Furnace AFUE .90 or Electric Heat Pump H Cooling Equipment S Interior and/or Insula Duct Leakage Testing Whole House Fan Energy STAR Ceiling Gas Water Heater EF Gas Water Heater EF Minimize Hot Water W	higher ISPF 8.0 or higher* EER higher than 13.0 and EER 11.5 or higher ated Ductwork g Shows <6% Leakage*  Fans higher than .6 higher than .8	n/a Y N Y M Y M Y	n/a *  *  *  n/a *  *  n/a *  Y Y
A4.207.4 A4.207.5 A4.207.6 A4.207.7 A4.207.8 A4.207.9 A4.207.10 A4.208.1 A4.208.2 A4.208.3	Furnace AFUE .90 or Electric Heat Pump H Cooling Equipment S Interior and/or Insula Duct Leakage Testing Whole House Fan Energy STAR Ceiling Gas Water Heater EF Gas Water Heater EF Minimize Hot Water W	higher ISPF 8.0 or higher*  EER higher than 13.0 and EER 11.5 or higher ated Ductwork  g Shows <6% Leakage*  Fans higher than .6 higher than .8  Wait Time Fixtures at least 90% Energy STAR	n/a Y Y N Y M Y Y M Y N N N N N N N N N N N	n/a *  *  *  n/a *  *  n/a *  *  n/a *  Y  Y  M  Y
A4.207.4 A4.207.5 A4.207.6 A4.207.7 A4.207.8 A4.207.9 A4.207.10 A4.208.1 A4.208.2 A4.208.3 A4.209.1 A4.210.1	Furnace AFUE .90 or Electric Heat Pump H Cooling Equipment S Interior and/or Insula Duct Leakage Testing Whole House Fan Energy STAR Ceiling Gas Water Heater EF Gas Water Heater EF Minimize Hot Water W Hard-wired Lighting I	higher ISPF 8.0 or higher*  EER higher than 13.0 and EER 11.5 or higher  ated Ductwork  g Shows <6% Leakage*  Fans  higher than .6  higher than .8  Wait Time  Fixtures at least 90% Energy STAR	n/a Y Y N Y M Y Y N Y Y Y Y Y Y Y Y Y Y	n/a * * * * * * * * * * Y Y Y Y Y
A4.207.4 A4.207.5 A4.207.6 A4.207.7 A4.207.8 A4.207.8 A4.207.9 A4.207.10 A4.208.1 A4.208.2 A4.208.3 A4.209.1	Furnace AFUE .90 or Electric Heat Pump H Cooling Equipment S Interior and/or Insula Duct Leakage Testing Whole House Fan Energy STAR Ceiling Gas Water Heater EF Minimize Hot Water V Hard-wired Lighting I All Applicable Appliar Solar PV System mee Solar Water Heating	higher ISPF 8.0 or higher*  EER higher than 13.0 and EER 11.5 or higher  ated Ductwork g Shows <6% Leakage*  Fans higher than .6 higher than .8 Wait Time Fixtures at least 90% Energy STAR nces Energy STAR eting CEC NSHP program System with Solar Fraction > 0.5.	n/a Y Y N Y M Y Y M Y Y N Y Y Y Y N Y N Y N	n/a *  *  *  n/a *  *  n/a *  *  n/a *  Y  Y  M  Y
A4.207.4 A4.207.5 A4.207.6 A4.207.7 A4.207.8 A4.207.9 A4.207.10 A4.208.1 A4.208.2 A4.208.3 A4.209.1 A4.210.1 A4.211.1	Furnace AFUE .90 or Electric Heat Pump H Cooling Equipment S Interior and/or Insula Duct Leakage Testing Whole House Fan Energy STAR Ceiling Gas Water Heater EF Minimize Hot Water V Hard-wired Lighting I All Applicable Appliar Solar PV System mee Solar Water Heating	higher ISPF 8.0 or higher*  EER higher than 13.0 and EER 11.5 or higher ated Ductwork  g Shows <6% Leakage*  Fans higher than .6 higher than .8 Wait Time Fixtures at least 90% Energy STAR nces Energy STAR eting CEC NSHP program	n/a Y Y N Y M Y Y Y Y Y M Y Y N Y N Y N Y M	n/a *  *  *  n/a  *  *  n/a  *  Y  Y  Y  Y  N

Home 4.	int Rated Single Family New 2 - 2008 Rating System	
Measure	Requirements Summary	
	able GPR credits & prerequisites	i
	mmunity Design & Planning	t
0.1-2	Develop Infill Sites, Build on Designated	ł
0.1-2	Brownfield Site.	l
N.2	Pre-Construction Kick-Off Meeting with	t
N.3	Rater Subs, Management Staff are	l
	Certified Green Building Professionals.	l
A.2.b,c	Divert 100% of Asphalt and Concrete	Ī
	and 65% (and 75%) (by weight) of	l
	Remaining Materials.	ļ
J.3	Design and Build Near Zero Energy	l
	none	t
	none	l
	none	t
		l
		l
C.3c	75% of Plants are Drought Tolerant,	l
	California Natives or Mediterranean	l
C.4	Species  Minimize Turf in Landscape Installed by	ŀ
C.4	Builder: less than 25% or 10% of total	l
	area	ŀ
C.3c	75% of Plants are Drought Tolerant,	t
	California Natives or Mediterranean	l
	Species	l
C.1	Group Plants by Water Needs	ı
	(Hydrozoning)	Ļ
	uilding Performance, Renewables	İ
* Indicates	uilding Performance, Renewables prescriptive energy measures in GPR	l
<ul> <li>Indicates</li> <li>without a p</li> </ul>	uilding Performance, Renewables prescriptive energy measures in GPR rescriptive counterpart in CALGreen, but	1
* Indicates without a p which woul	uilding Performance, Renewables prescriptive energy measures in GPR rescriptive counterpart in CALGreen, but d contribute to energy performance	_
* Indicates without a p which woul	uilding Performance, Renewables prescriptive energy measures in GPR rescriptive counterpart in CALGreen, but d contribute to energy performance es in Tier 1 or Tier 2.	1
* Indicates without a p which woul	uilding Performance, Renewables prescriptive energy measures in GPR rescriptive counterpart in CALGreen, but d contribute to energy performance es in Tier 1 or Tier 2.  * see energy note	
* Indicates without a p which woul prerequisite	uilding Performance, Renewables prescriptive energy measures in GPR rescriptive counterpart in CALGreen, but d contribute to energy performance es in Tier 1 or Tier 2.  * see energy note * see energy note	
* Indicates without a p which woul	prescriptive energy measures in GPR rescriptive energy measures in GPR rescriptive counterpart in CALGreen, but dontribute to energy performance in Tier 1 or Tier 2.  * see energy note  * see energy note Blower Door Test	
* Indicates without a p which woul prerequisite J.1.b-c	uilding Performance, Renewables prescriptive energy measures in GPR rescriptive counterpart in CALGreen, but d contribute to energy performance es in Tier 1 or Tier 2.  * see energy note * see energy note	
* Indicates without a p which woul prerequisite J.1.b-c	uilding Performance, Renewables prescriptive energy measures in GPR rescriptive counterpart in CALGreen, but d contribute to energy performance es in Tier 1 or Tier 2.  * see energy note * see energy note Blower Door Test High Performing Zoned Hydronic Radiant	
* Indicates without a p which woul prerequisite J.1.b-c H.3	uilding Performance, Renewables prescriptive energy measures in GPR rescriptive counterpart in CALGreen, but d contribute to energy performance es in Tier 1 or Tier 2.  * see energy note  * see energy note Blower Door Test High Performing Zoned Hydronic Radiant Heating none	
* Indicates without a p which woul prerequisite  J.1.b-c H.3	uilding Performance, Renewables prescriptive energy measures in GPR rescriptive counterpart in CALGreen, but d contribute to energy performance es in Tier 1 or Tier 2.  * see energy note  * see energy note Blower Door Test High Performing Zoned Hydronic Radiant Heating none  Sealed Combustion Units (Furnace).	
* Indicates without a p which woul prerequisite  J.1.b-c  H.3	uilding Performance, Renewables prescriptive energy measures in GPR rescriptive counterpart in CALGreen, but d contribute to energy performance es in Tier 1 or Tier 2.  * see energy note  * see energy note Blower Door Test High Performing Zoned Hydronic Radiant Heating none	
* Indicates without a p which woul prerequisite  J.1.b-c H.3	wilding Performance, Renewables prescriptive energy measures in GPR rescriptive counterpart in CALGreen, but d contribute to energy performance es in Tier 1 or Tier 2.  * see energy note * see energy note Blower Door Test High Performing Zoned Hydronic Radiant Heating none  Sealed Combustion Units (Furnace). High Efficiency Air Conditioning, HSPF >8	
* Indicates without a p which would prerequisite	uilding Performance, Renewables prescriptive energy measures in GPR rescriptive counterpart in CALGreen, but d contribute to energy performance es in Tier 1 or Tier 2.  * see energy note  * see energy note Blower Door Test High Performing Zoned Hydronic Radiant Heating none  Sealed Combustion Units (Furnace).	
* Indicates without a p which would prerequisite	uilding Performance, Renewables prescriptive energy measures in GPR rescriptive counterpart in CALGreen, but d contribute to energy performance es in Tier 1 or Tier 2.  * see energy note  * see energy note Blower Door Test High Performing Zoned Hydronic Radiant Heating none  Sealed Combustion Units (Furnace). High Efficiency Air Conditioning, HSPF >8	
* Indicates without a p which would prerequisite  J.1.b-c H.3  H.2.a H.4	uilding Performance, Renewables prescriptive energy measures in GPR rescriptive counterpart in CALGreen, but d contribute to energy performance es in Tier 1 or Tier 2.  * see energy note * see energy note Blower Door Test High Performing Zoned Hydronic Radiant Heating none  Sealed Combustion Units (Furnace). High Efficiency Air Conditioning, HSPF >8  High Efficiency Air Conditioning, SEER >14, EER>11 or 12	
* Indicates without a p which would prerequisite  J.1.b-c H.3  H.2.a H.4	uilding Performance, Renewables prescriptive energy measures in GPR rescriptive counterpart in CALGreen, but d contribute to energy performance es in Tier 1 or Tier 2.  * see energy note  * see energy note Blower Door Test High Performing Zoned Hydronic Radiant Heating none  Sealed Combustion Units (Furnace). High Efficiency Air Conditioning, HSPF >8 High Efficiency Air Conditioning, SEER >14, EER>11 or 12 Install HVAC Unit and Ductwork within	
* Indicates without a p which would prerequisite  J.1.b-c H.3  H.2.a H.4 H.5.a	uilding Performance, Renewables prescriptive energy measures in GPR rescriptive counterpart in CALGreen, but d contribute to energy performance es in Tier 1 or Tier 2.  * see energy note  * see energy note  Blower Door Test  High Performing Zoned Hydronic Radiant Heating none  Sealed Combustion Units (Furnace).  High Efficiency Air Conditioning, HSPF >8  High Efficiency Air Conditioning, SEER >14, EER>11 or 12  Install HVAC Unit and Ductwork within Conditioned Space  * see energy note	
* Indicates without a p which woul prerequisite  J.1.b-c  H.3  H.2.a  H.4  H.5.a	uilding Performance, Renewables prescriptive energy measures in GPR rescriptive counterpart in CALGreen, but d contribute to energy performance es in Tier 1 or Tier 2.  * see energy note  * see energy note Blower Door Test High Performing Zoned Hydronic Radiant Heating none  Sealed Combustion Units (Furnace). High Efficiency Air Conditioning, HSPF > 8 High Efficiency Air Conditioning, SEER >14, EER>11 or 12 Install HVAC Unit and Ductwork within Conditioned Space * see energy note  Whole House Fan	
* Indicates without a p which would prerequisite J.1.b-c H.3  H.2.a H.4 H.5.a	uilding Performance, Renewables prescriptive energy measures in GPR rescriptive counterpart in CALGreen, but d contribute to energy performance es in Tier 1 or Tier 2.  * see energy note  * see energy note Blower Door Test High Performing Zoned Hydronic Radiant Heating none  Sealed Combustion Units (Furnace). High Efficiency Air Conditioning, HSPF >8 High Efficiency Air Conditioning, SEER >14, EER>11 or 12 Install HVAC Unit and Ductwork within Conditioned Space  * see energy note  Whole House Fan Energy STAR Ceiling Fans	
* Indicates without a p which woul prerequisite  J.1.b-c  H.3  H.2.a  H.4  H.5.a	uilding Performance, Renewables prescriptive energy measures in GPR rescriptive counterpart in CALGreen, but d contribute to energy performance es in Tier 1 or Tier 2.  * see energy note  * see energy note  Blower Door Test  High Performing Zoned Hydronic Radiant Heating none  Sealed Combustion Units (Furnace).  High Efficiency Air Conditioning, HSPF >8  High Efficiency Air Conditioning, SEER >14, EER>11 or 12  Install HVAC Unit and Ductwork within Conditioned Space  * see energy note  Whole House Fan Energy STAR Ceiling Fans Sealed Combustion Units (Water Heater)	
* Indicates without a p which would prerequisite J.1.b-c H.3  H.2.a H.4 H.5.a H.4 H.5.a	wilding Performance, Renewables prescriptive energy measures in GPR rescriptive counterpart in CALGreen, but d contribute to energy performance es in Tier 1 or Tier 2.  * see energy note  * see energy note Blower Door Test High Performing Zoned Hydronic Radiant Heating none  Sealed Combustion Units (Furnace). High Efficiency Air Conditioning, HSPF >8 High Efficiency Air Conditioning, SEER >14, EER>11 or 12 Install HVAC Unit and Ductwork within Conditioned Space  * see energy note  Whole House Fan Energy STAR Ceiling Fans Sealed Combustion Units (Water Heater) Sealed Combustion Units (Water Heater) Sealed Combustion Units (Water Heater)	
* Indicates without a p which woul prerequisite  J.1.b-c  H.3  H.2.a  H.4  H.5.a  H.9.b  H.9.b  H.2.b	uilding Performance, Renewables prescriptive energy measures in GPR rescriptive counterpart in CALGreen, but d contribute to energy performance es in Tier 1 or Tier 2.  * see energy note Blower Door Test High Performing Zoned Hydronic Radiant Heating none  Sealed Combustion Units (Furnace). High Efficiency Air Conditioning, HSPF >8 High Efficiency Air Conditioning, SEER >14, EER>11 or 12 Install HVAC Unit and Ductwork within Conditioned Space * see energy note  Whole House Fan Energy STAR Ceiling Fans Sealed Combustion Units (Water Heater) Sealed Combustion Units (Water Heater) Distribute Domestic Hot Water Efficiently High-Efficacy Lighting and Design	
* Indicates without a p which woul prerequisite  J.1.b-c  H.3  H.2.a  H.4  H.5.a  H.9.b  H.9.b  H.9.b  H.2.b  G.1  M.5	uilding Performance, Renewables prescriptive energy measures in GPR rescriptive counterpart in CALGreen, but d contribute to energy performance es in Tier 1 or Tier 2.  * see energy note  * see energy note Blower Door Test High Performing Zoned Hydronic Radiant Heating none  Sealed Combustion Units (Furnace). High Efficiency Air Conditioning, HSPF >8 High Efficiency Air Conditioning, SEER >14, EER>11 or 12 Install HVAC Unit and Ductwork within Conditioned Space  * see energy note  Whole House Fan Energy STAR Celling Fans Sealed Combustion Units (Water Heater) Sealed Combustion Units (Water Heater) Distribute Domestic Hot Water Efficiently High-Efficacy Lighting and Design Lighting System	
* Indicates without a p which would prerequisite J.1.b-c H.3 H.2.a H.4 H.5.a H.9.b H.9.a H.2.b G.1	uilding Performance, Renewables prescriptive energy measures in GPR rescriptive counterpart in CALGreen, but d contribute to energy performance es in Tier 1 or Tier 2.  * see energy note  * see energy note Blower Door Test High Performing Zoned Hydronic Radiant Heating none  Sealed Combustion Units (Furnace). High Efficiency Air Conditioning, HSPF >8 High Efficiency Air Conditioning, SEER >14, EER>11 or 12 Install HVAC Unit and Ductwork within Conditioned Space  * see energy note  Whole House Fan Energy STAR Ceiling Fans Sealed Combustion Units (Water Heater) Distribute Domestic Hot Water Efficiently High-Efficacy Lighting and Design Lighting System Energy STAR Dishwasher, Clothes	
* Indicates without a p which would prerequisite J.1.b-c H.3  H.2.a H.4  H.5.a H.5.a H.9.b H.9.a H.2.b G.1 M.5	uilding Performance, Renewables prescriptive energy measures in GPR rescriptive counterpart in CALGreen, but d contribute to energy performance es in Tier 1 or Tier 2.  * see energy note  * see energy note Blower Door Test High Performing Zoned Hydronic Radiant Heating none  Sealed Combustion Units (Furnace). High Efficiency Air Conditioning, HSPF >8  High Efficiency Air Conditioning, SEER >14, EER>11 or 12 Install HVAC Unit and Ductwork within Conditioned Space * see energy note  Whole House Fan Energy STAR Ceiling Fans Sealed Combustion Units (Water Heater) Sealed Combustion Units (Water Heater) Sealed Combustion Units (Water Heater) High-Efficacy Lighting and Design Lighting System Energy STAR Dishwasher, Clothes Washer, Refrigerator	
* Indicates without a p which woul prerequisite  J.1.b-c H.3  H.2.a H.4 H.5.a  H.9.b H.9.b H.2.b G.1 M.5  M.1-3  I.3	uilding Performance, Renewables prescriptive energy measures in GPR rescriptive counterpart in CALGreen, but d contribute to energy performance es in Tier 1 or Tier 2.  * see energy note  * see energy note  Blower Door Test  High Performing Zoned Hydronic Radiant Heating none  Sealed Combustion Units (Furnace).  High Efficiency Air Conditioning, HSPF >8  High Efficiency Air Conditioning, SEER >14, EER>11 or 12  Install HVAC Unit and Ductwork within Conditioned Space  * see energy note  Whole House Fan Energy STAR Ceiling Fans Sealed Combustion Units (Water Heater) Distribute Domestic Hot Water Efficiently High-Efficacy Lighting and Design Lighting System Energy STAR Dishwasher, Clothes Washer, Refrigerator Onsite Renewable Generation	
* Indicates without a p which woul prerequisite  J.1.b-c  H.3  H.2.a  H.4  H.5.a  H.9.b  H.9.a  H.2.b  H.2.b  G.1  M.5  M.1-3  I.3	uilding Performance, Renewables prescriptive energy measures in GPR rescriptive counterpart in CALGreen, but d contribute to energy performance es in Tier 1 or Tier 2.  * see energy note  * see energy note Blower Door Test High Performing Zoned Hydronic Radiant Heating none  Sealed Combustion Units (Furnace). High Efficiency Air Conditioning, HSPF > 8 High Efficiency Air Conditioning, SEER >14, EER>11 or 12 Install HVAC Unit and Ductwork within Conditioned Space * see energy note  Whole House Fan Energy STAR Ceiling Fans Sealed Combustion Units (Water Heater) Distribute Domestic Hot Water Efficiently High-Efficacy Lighting and Design Lighting System Energy STAR Dishwasher, Clothes Washer, Refrigerator Onsite Renewable Generation Onsite Renewable Generation	
* Indicates without a p which woul prerequisite  J.1.b-c H.3  H.2.a H.4 H.5.a  H.9.b H.9.b H.2.b G.1 M.5  M.1-3  I.3	uilding Performance, Renewables prescriptive energy measures in GPR rescriptive counterpart in CALGreen, but d contribute to energy performance es in Tier 1 or Tier 2.  * see energy note  * see energy note Blower Door Test High Performing Zoned Hydronic Radiant Heating none  Sealed Combustion Units (Furnace). High Efficiency Air Conditioning, HSPF >8 High Efficiency Air Conditioning, SEER >14, EER>11 or 12 Install HVAC Unit and Ductwork within Conditioned Space * see energy note  Whole House Fan Energy STAR Ceiling Fans Sealed Combustion Units (Water Heater) Distribute Domestic Hot Water Efficiently High-Efficacy Lighting and Design Lighting System Energy STAR Dishwasher, Clothes Washer, Refrigerator Onsite Renewable Generation Install Wiring Conduit for Future	
* Indicates without a p which woul prerequisite  J.1.b-c  H.3  H.2.a  H.4  H.5.a  H.9.b  H.9.a  H.2.b  H.2.b  G.1  M.5  M.1-3  I.3	uilding Performance, Renewables prescriptive energy measures in GPR rescriptive counterpart in CALGreen, but d contribute to energy performance es in Tier 1 or Tier 2.  * see energy note  * see energy note  Blower Door Test  High Performing Zoned Hydronic Radiant Heating none  Sealed Combustion Units (Furnace).  High Efficiency Air Conditioning, HSPF >8  High Efficiency Air Conditioning, SEER >14, EER>11 or 12  Install HVAC Unit and Ductwork within Conditioned Space  * see energy note  Whole House Fan Energy STAR Ceiling Fans Sealed Combustion Units (Water Heater) Distribute Domestic Hot Water Efficiently High-Efficacy Lighting and Design Lighting System Energy STAR Dishwasher, Clothes Washer, Refrigerator Onsite Renewable Generation Onsite Renewable Generation Install Wiring Conduit for Future Photovoltaic Installation & Provide 200	
* Indicates without a p which woul prerequisite  J.1.b-c  H.3  H.2.a  H.4  H.5.a  H.9.b  H.9.a  H.2.b  H.2.b  G.1  M.5  M.1-3  I.3	uilding Performance, Renewables prescriptive energy measures in GPR rescriptive counterpart in CALGreen, but d contribute to energy performance es in Tier 1 or Tier 2.  * see energy note  * see energy note Blower Door Test High Performing Zoned Hydronic Radiant Heating none  Sealed Combustion Units (Furnace). High Efficiency Air Conditioning, HSPF >8 High Efficiency Air Conditioning, SEER >14, EER>11 or 12 Install HVAC Unit and Ductwork within Conditioned Space * see energy note  Whole House Fan Energy STAR Ceiling Fans Sealed Combustion Units (Water Heater) Distribute Domestic Hot Water Efficiently High-Efficacy Lighting and Design Lighting System Energy STAR Dishwasher, Clothes Washer, Refrigerator Onsite Renewable Generation Install Wiring Conduit for Future	

LEED for Homes California (non-Midrise) Rating System		Meets CALGreen
Credit	Requirements Summary	Ğ, Ğ
	le LEED credits & prerequisites	
	Linkages, Sustainable Sites	
LL 3.1-3.3	Preferred Locations: Edge, Infill,	Υ
	Previously Developed.	ľ
ID 1.2-1.4	Integrated project planning, Professional credentialed with respect to LEED for	Υ
	Homes, Design charrette.	٠.
	would contribute to MR 2.2a (reused	
	materials) and MR 3.2 (deconstruction).	N
ID 1.5	Building orientation within 15 degrees of	· ·
	South, meets glazing ratios.	Υ
	none	n/a
SS 1.2	Minimize disturbed area of site around	
	trees, leave undeveloped area, undo soil	М
	compaction.	
	none	n/a
		, .
SS 2.3	Limit conventional turf to 60%-0% of	N
	softscape area	N
SS 2.4	Drought-tolerant plants are 40%-90% of	
	installed plants	N
WE 2.1.f	Create separate zones for each type of	
WL 2.1.1	bedding area based on watering needs	Υ
Energy & A	Atmosphere	
* Indicates pr	escriptive energy measures in LEED	
	scriptive counterpart in CALGreen, but contribute to energy performance	*
	in Tier 1 or Tier 2.	
	* see energy note	*
	* see energy note	*
EA 1.1	Prerequisite: envelope leakage testing  * see energy notes at top	Υ
	see energy notes at top	*
	none	n/a
	* see energy note	*
	* see energy note	*
	* see energy note	*
	* see energy note	*
EA 1.1	Proroquicito: onvolono logicado testina	
FW 1.1	Prerequisite: envelope leakage testing	М
	* see energy note	*
EA 9.1.b	Energy STAR Ceiling Fans	Y *
	none for LEED-H in California none for LEED-H in California	*
EA 7.1	Efficient Hot Water Distribution System	М
EA 8.3	Lighting - up to 80% Energy STAR	N
EA 9.1.a,c.d	Energy STAR Refrigerator, Dishwasher,	_
	Clothes Washer	Υ
EA 10	Renewable Energy System none for LEED-H in California	Y *
	none	-
		n/a
	none	n/a









	een Low-Rise Residential comparison to GreenPol			
	CALGreen Residential Building Code			
Building	Code	rns ed/	Earns LEED	
CALGreen	Section CALGreen Requirements Summary	E O	Ear	
4.3	Water Efficiency and Conservation (choose one for Tier 1 or two for	Tier 2)		
A4.303.2	Non-water urinals or toilets	Y	Y	
A4.304.1	Minimize spray heads in irrigation system (all areas except turf).		1	
		N	М	
A4.304.2	Rainwater capture, storage, and re-use for 65% of roof area.	М	м	
A4.304.3	Water budget for irrigation.	N	м	
A4.304.5	Landscape design uses no potable water.	n/a	n/a	
A4.305.1	Piping for future graywater system.	Υ	N	
A4.305.2	Recycled water piping for future toilet flushing.	N	N	
A4.305.3	Recycled water used for irrigation.	Y	Y	
4.4	Material Conservation (choose one for Tier 1 or four for Tier 2)			
A4.403.1	Frost-Protected Shallow Foundation.	Y	n/a	
A4.404.1	Efficient Framing Lumber Size: Beams and Headers.	М	М	
A4.404.2	Efficient Framing Building Dimensions and Layouts.			
		N	Y	
A4.404.3	Pre-manufactured Building Systems.	м	Υ	
A4.404.4	Pre-cut Materials and Details.	м	N	
A4.405.1	Windows, Trim, and/or Siding Do Not Require Paint or Stain.	м	n/a	
A4.405.2	Flooring Without Additional Coverings, e.g. Concrete.			
		Y	М	
A4.405.4	Renewable Materials, e.g. Bamboo, Cork, Wood, Agricultural Sources.			
		N	N	
		"	''	
A4.407.1	Install Foundation and Landscape Drains.	N	М	
A4.407.2	Roof Drains Connected to Landscape Features.	N	Y	
A4.407.3	Flashing Details Provided.	N	Υ	
A4.407.4	Construction Materials Protected from Moisture Damage.			
	•	N	Υ	
A4.407.5	Ice/Water Barrier on Roof (Climate Zone 16 only).	n/a		
A4.407.6	Exterior Doors Protected from Water Intrusion.		n/a	
A4.407.7	Permanent Overhang or Awning on Exterior Walls.	Y	n/a	
A4.504.1	Environmental Quality (choose one for Tier 1 or one for Tier 2)  Early Compliance with CARB Particleboard Formaldehyde Standards.		-	
A4.304.1	Larry Compliance with CARD Farticleboard Formalderryde Standards.	Y	м	
		1.	"	
A4.506.1	Filters on Air and Ventilation Systems higher than MERV 6.	Y	N	
A4.506.2	Direct Vent or Isolated Equipment.	Y	N	
			IN	

	int Rated Single Family New 2 - 2008 Rating System	Moote
Manaura	Possilromento Summani	ž
Measure		H
	pe, Plumbing	Ļ
P.G.4	Composting or Waterless Toilet.	
C.6.a	Install High-Efficiency Irrigation System with Low-Flow, Drip, Bubblers or low-	
	flow Sprinklers for all areas.	
C.8	Rain Water Harvesting System .	T
C.11.a	Design Landscape to Meet Water Budget.	
	none	r
P.G.1	Greywater Pre-Plumbing.	H
F.G.1	none	r
C.9	Irrigation System Uses Recycled	Г
	Wastewater, or is pre-plumbed.	
Foundati	on, Exterior, Frame & Envelope	t
B.2	Use Frost-Protected Shallow Foundation	t
	in Cold Areas (CEC Climate Zone 16).	L
D.1.b	Apply Optimal Value Engineering - Door	Ì
	and Window Headers Sized for Load.	L
D.1.a	Apply Optimal Value Engineering - Place	ĺ
	Joists, Rafters and Studs at 24-Inch on	
D 2 2 6	Center.	H
D.2-3,6	Construction Material Efficiencies,	1
D.2-3,6	Engineered Lumber, Solid Wall Systems.  Construction Material Efficiencies,	۲
D.2-3,0	Engineered Lumber, Solid Wall Systems.	
E.4	Durable non-Combustible Siding	L
	Material.	
L.1, L.2	Environmentally Preferable Flooring Thermal Mass Floors.	
K.6, L.1	Use Environmentally Preferable Materials	H
K.0, L.1	for Interior Finish, Flooring: A) FSC-	
	Certified Wood, B) Reclaimed, C) Rapidly	
	Renewable, D) Recycled-Content or E)	
	Finger-Jointed F) Local.	
B.4	Install a Foundation Drainage System .	Ī
P.A.1.c	Route Downspout Through Permeable	Γ
	Landscape.	L
E.2	Flashing Installation Techniques Specified and Third-Party Verified.	ĺ
A.5.b	Construction Environmental Quality	H
A.J.D	Management Plan - Full environmental	Ì
	plan with flush out.	ĺ
	none	r
	none	r
D.8.b	Overhangs and Gutters.	T
	Flooring, HVAC	t
K.8	Exceed Current CARB ATCM for	H
	Composite Wood Formaldehyde Limits	Ì
	Prior to Mandatory Compliance Dates.	Ì
	o. to Humatory compliance Dates.	1
Н.6	High Efficiency HVAC Filter (MERV 6+).	H
H.6 H.2	High Efficiency HVAC Filter (MERV 6+). Sealed Combustion Units.	ŀ

Requirements Summary iency Non-water fixtures would contribute to WE 3.1. Drip irrigation for 50% of landscape olanting beds, High-efficiency nozzles with distribution uniformity at least 0.70. Rainwater Harvesting System. Irrigation System Design by Certified Professional. none	W W CALGreen
iency Non-water fixtures would contribute to WE 3.1. Drip irrigation for 50% of landscape Dlanting beds, High-efficiency nozzles with distribution uniformity at least 0.70. Rainwater Harvesting System. Irrigation System Design by Certified Professional.	N M
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with distribution uniformity at least 0.70. Rainwater Harvesting System. Irrigation System Design by Certified Professional.	М
Rainwater Harvesting System. Irrigation System Design by Certified Professional.	
Irrigation System Design by Certified Professional.	
Professional.	
none	М
	n/a
Graywater Reuse System.	Y
	n/a
Humelpar Recycled Water System.	Y
Resources	
none	n/a
Framing Efficiencies.	М
Detailed Framing Documents, Framing Efficiencies.	М
Framing Efficiencies, Off-site Fabrication.	Υ
Detailed Framing Documents, Cut List and Lumber Order.	Υ
none	n/a
1/2 point for 90% hard surface flooring; sealed concrete counts towards flooring component.	Y
Environmentally Preferable Products: Linoleum, cork, or bamboo count towards flooring component - 90% of total flooring must be renewably sourced to count.	Υ
Prerequisite: Part of durability plan.	Υ
Permanent stormwater controls designed to manage roof runoff.	Y
Prerequisite: Part of durability plan.	Y
Prerequisite: Part of durability plan.	Y
Prerequisite: Part of durability plan.	Y
	n/a
	n/a
Environmentally preferable products: cabinet, counter, and trim composite materials contain no added urea-	м
1	Υ
Prerequisite: Basic Combustion Venting Measures: sealed combustion or power-	Υ
	Prerequisite: Part of durability plan.  Perequisite: Part of durability plan.









CALGreen Residential Building Code		ns GPR	a/Pts	sd/Pts
CALGreen Section	CALGreen Requirements Summary	Ear		S S

Note: this column is intentionally left blank as there are no CALGreen measures comparable to the remaining GPR and LEED for Homes measures listed here.

GreenPoint Rated Single Family New Home 4.2 - 2008 Rating System		Meets
Measure	Requirements Summary	Σξ
Additiona	al GPR credits & prerequisites	
Site, Con	nmunity Design & Planning	
A.4	Reduce Heat Island Effect on Site.	
C.13	Reduce Light Pollution by Shielding Fixtures and Directing Light Downward.	
N.1	Required: Incorporate GreenPoint Rated Checklist in Blueprints.	
0.3	Cluster Homes & Keep Size in Check.	
0.4	Design for Walking & Bicycling.	
0.5	Design for Safety & Social Gathering.	
0.6	Design for Diverse Households.	
P.A.1.b-e	Stormwater Control: Landscape and Site Features.	
PA.2	Capture and Treat 85% of Total Annual Stormwater Runoff.	

HVAC,	Building Performance, Renewables
C.3	Construct Resource-Efficient Landscapes.
C.5	Plant Shade Trees.
C.7	Incorporate Two Inches of Compost in the Top 6 to 12 Inches of Soil.
D.7	Energy Heels on Roof Trusses.*
Н.9.с	Automatically Controlled Integrated HVAC System with Variable Speed.*
I.1	Pre-Plumb for Solar Water Heating.
J.1.a	Verify Quality of Insulation Installation & Thermal Bypass Checklist.*
J.5-6	Third Party Energy Plan Review.*
L.2	Thermal Mass Floors.*
N.5	Install a Home System Monitor OR Do Time-of-Use Pricing Program.
P.H.1	Humidity Control Systems.
P.H.2	Design HVAC System to Manual T for Register Design.

Landscape, Plumbing	
C.2	Mulch All Planting Beds to the Greater of
	3 Inches or Local Water Ordinance
	Requirement.
C.10	Submetering for Landscape Irrigation.
C.12	Use Environmentally Preferable Materials
	for 70% of Non-Plant Landscape
	Elements and Fencing.
P.G.2	Greywater System Operational.
P.G.3	Innovative Wastewater Technology
	(Constructed Wetland, Sand Filter,
	Aerobic System).
P.G.5	Install Drain Water Heat-Recovery
	System.
P.G.6	Install a Hot Water Desuperheater.

<b>LEED</b> for	Homes California (non-Midrise)	
Rating System		
Credit	Requirements Summary	Meets
Additiona	al LEED credits & prerequisites	
Location	& Linkages, Sustainable Sites	
SS 3	Reduce local heat island effect.	
	none	
	none	
00.6	Commant Baselonnest Harry Circ	
SS 6	Compact Development, Home Size Adjuster.	
LL 5	Basic Community Resources / Transit.	
	none	
SS 4.1	none See above.	
33 4.1	See above.	
SS 4.3	Management of roof runoff: manage	
TD 1 1	50% or 100% on site.	
ID 1.1	Prerequisite: Integrated Project Planning.	
LL 2	Site Selection (Avoid Sensitive Sites).  Existing Infrastructure.	
LL 4 LL 6	Access to Open Space.	
SS 2.1	Prerequisite: No Invasive Plants.	
SS 4.2	Permanent Erosion Controls.	
	Atmosphere	
c.gy &	none	
	none	
SS 3	Reduce Local Heat Island Effects: trees	
SS 2.2.e	or high-albedo hardscape.  All compacted soil must be tilled to at	
35 2.2.e	least 6 inches.	
	* see energy notes at top	
	* see energy notes at top	
	none	
	* see energy notes at top	
	none	
	* see energy notes at top	
	none	
EQ 3	Moisture Control: mechanical	
-40	dehumidification system.	
	none	
EA 8.1	Prerequisite: Meet California Title-24	
	lighting requirements.	
EA 11.1	Prerequisite: Refrigerant Charge Test.	
EA 11.2	Appropriate HVAC Refrigerants.	
Water Ef		
SS 2.2.d	Add mulch or soil amendments as	
	appropriate.	
WE 2.1.d	Submeter for irrigation system.	
MR 2.2	Environmentally Preferable Products:	
	Decking and Patio material.	
WE 1.2	Graywater Reuse System.	
·	none	
	none	
	none	
WE 2.1	Additional irrigation efficiency measures.	
WE 2.2	Third-party inspection of irrigation system.	
WE 3.2	Very high efficiency fixtures and fitting.	
	,g.r ciricione, incares and fitting.	









LEED for Homes California (non-Midrise)

Rating System

**CALGreen Residential Building Code CALGreen Section CALGreen Requirements Summary** 

Note: this column is intentionally left blank as there are no CALGreen measures comparable to the remaining GPR and LEED for Homes measures listed here.

	int Rated Single Family New 2 - 2008 Rating System	Meets				
Measure	Requirements Summary	_				
Foundati	Foundation, Exterior, Frame & Envelope					
A.4	Cool Site: Reduce Heat Island Effect On Site.					
B.5	Moisture Controlled Crawlspace.					
B.6	Design and Build Structural Pest Controls.					
D.4 D.5	Insulated Headers.					
D.5	FSC-Certified Wood.					
E.1	Environmentally Preferable Decking.					
E.3	Rain Screen Wall System.					
E.4	Durable and Non-Combustible Siding.					
E.5	Durable and Fire Resistant Roofing Materials or Assembly.					
M.4	Install Built-In Recycling Center or Composting Center .					
N.4.b	Conduct Educational Walkthroughs (Prerequisite is N4a).					
P.N.2	Educational Signage of Project's Green Features.					
P.D.1	Design, Build and Maintain Structural Pest and Rot Controls.					
P.D.2	Use Moisture Resistant Materials in Wet Areas.					
P.E.1	Vegetated Roof.					
P.K.1	Materials Meet SMaRT Criteria.					
P.N.1	Detailed Durability Plan & Verification.					

Finishes, Flooring, HVAC		
A.5.b	Full environmental quality management	
	plan and pre-occupancy flush out is	
	conducted (Prerequisite is A5a).	
B.3	Use Radon Resistant Construction.	
D.9	Reduce Pollution Entering the Home from	
	the Garage.	
H.1.b-c	HVAC System Diagnostic Testing.	
H.7	No Fireplace OR Sealed Gas Fireplace(s)	
	with Efficiency Rating >60%.	
H.10	Advanced Mechanical Ventilation for IAQ.	
H.11	Install Carbon Monoxide Alarm(s).	
J.1.d	Combustion Safety Backdraft Test.	
J.4	EPA Indoor airPlus Certification.	
K.1	Design Entryways to Reduce Tracked-In	
	Contaminants.	
K.9	After Installation of Finishes, Test of	
	Indoor Air Shows Formaldehyde Level	
	<27 ppb.	

Rating Sys	stem	Meet
Credit	Requirements Summary	2 8
	& Resources	
SS 3	Reduce Local Heat Island Effects: trees	
33 3	or high-albedo hardscape.	
	none	
SS 5	Pest Control Alternatives: structural	
	measures.	
	none	
WE 2.1	Prerequisite: FSC Certified / Tropical	
MR 2.2	Wood. EPP Materials: decking.	
ID 2.1	Prerequisite: Part of durability plan.	
ID 2.1	Prerequisite: Part of durability plan.	
ID 2.1	Prerequisite: Part of durability plan.	
	none	
AE 1.1.b	One have wallshowed with accommode	
AE 1.1.D	One-hour walkthrough with occupant(s).	
AE 1.2-1.3	Enhanced Training, Public Awareness.	
SS 5	See above.	
	none	
SS 4.3	Manage Roof Runoff (see above).	_
35 4.3	none	
ID 2.1-2.3	Prerequisite: Durability Planning,	
	Management & Verification.	
MR 1.1	Prerequisite: Framing Order Waste Factor	
	<10%.	
Indoor En	vironmental Quality	
EQ 8.3	Preoccupancy Flush.	
EQ 9	Prerequisite: Radon Protection in High-	
EQ 9	Risk Areas, additional credit in moderate-	
	risk areas.	
EQ 10	Prerequisite: No HVAC in Garage,	
-	additional credit for garage pollutant	
	protection.	
	none	
EQ 2.2	No fireplace, or do back-draft potential	
	none	-
EQ 2.1.b	CO monitors on each floor.	
EQ 2.2	Enhanced Combustion Venting Measures.	
EQ 1	Energy STAR with Indoor Air Package.	
EQ 8.2.a,b	Indoor Contaminant Control: walk-off	
	mats or shoe removal area.	
	none	
EQ 4.1	Prerequisite: Basic Outdoor Air	
	Ventilation (ASHRAE 62.2).	
EQ 4.2	Enhanced Outdoor Air Ventilation.	
EQ 4.3, 5.3,	Third-Party Performance Testing of	
6.3	Outdoor Air Supply/ Exhaust / Room-by-	
	Room.	
EQ 5.1	Prerequisite: Basic Local Exhaust:	
	Bathroom & kitchen fans and ducts meet ASHRAE 62.2 and exhaust outdoors.	
EQ 6.1	Prerequisite: Room-by-Room Heating	
-4 0.1	and Cooling Load Calculations.	
EQ 6.2	Return Air Flow / Room Controls.	
EQ 7.2-7.3	Filters > MERV 10 or 13.	
EQ 8.2.c	Central Vacuum System	

note: 2010 California Building Code and California Residential Code require CO alarms





